PTO/SB/08a (08-03)

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known					
Application Number	10/647,607				
Filing Date	August 25, 2003				
First Named Inventor	S. Brandon Keller				
Art Unit	2825				
Examiner Name	Brandon Bowers				
Attorney Docket Number	100111259-1	Ĩ			

				Name of Palentee or Applicant of	
Examiner Initials *	Cite No.'	Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear
NMD		US-2002/0144219	10-03-2002	Zachariah, et al.	
1		US- 2003/0200519	10-23-2003	Argyres	
		US- 2003/0208721	11-06-2003	Regnier	
		US- 2003/0221173	11-27-2003	Fisher	
		US- 5,249,133	09-28-1993	Batra	
		US- 5,301,318	04-05-1994	Mittal	
		US- 5,668,732	09-16-1997	Khouja, et al.	
	i	US- 5,673,420	09-30-1997	Reyes, et al.	
		US- 5,682,320	10-28-1997	Khouja, et al.	
	1	US- 5,696,694	12-09-1997	Khouja, et al.	
		US- 5,838,579	11-17-1998	Olson, et al.	
		US- 5,903,476	05-11-1999	Mauskar, et al.	
	1	US- 5,946,218	08-31-1999	Taylor, et al.	
	1	US- 5,949,691	09-07-1999	Kurosaka, et al.	
		US- 6,075,932	06-13-2000	Khouja, et al.	
	1	US- 6,272,671	08-07-2001	Fakhry	
		US- 6,330,703	12-11-2001	Saito, et al.	
		US- 6,345,379	02-05-2002	Khouja, et al.	
		US-6,378,123	04-23-2002	Dupenloup	
		US- 6,490,717 B1	12-03-2002	Pederson, et al.	
		US- 6,493,864	12-10-2002	Liu.	
		US- 6,529,861	03-04-2003	Patra, et al.	
		US- 6,531,923 B2	03-11-2003	Bums	
1		US- 6,598,211	07-22-2003	Zachariah, et al.	
		US- 6,751,782 B2	06-15-2004	Levin, et al.	
	1	US- 6,801,884	10-05-2004	Ferren, et al.	
NIVID	1	US- 6,836,877	12-28-2004	Dupenloup	

	FOREIGN PATENT DOCUMENTS							
	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant				
Examiner Initials*	Cite No.1	Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited	Passages or Relevant Figures Appear	T⁰		
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Date 12/08/05 Examiner Signature Considered

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of document by the appropriate symbols as indicated on the document under WIPO standard S1. 16 if possible. "Applicant is to place a check mark feel in English language Translation is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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				Application Number	10/647,607	
INFO	PRMATION	DIS	CLOSURE	Filing Date	August 25, 2003	
STATEMENT BY APPLICANT		First Named Inventor	S. Brandon Keller			
				Art Unit		
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Shoot	11	- of	1	Attomory Dookst Number	100111250-1	

	U.S. PATENT DOCUMENTS								
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Initials *	Cito No.1	Number - Kind Code ² (# known) Publication M.W-DD-YY		Cited Document	Pages, Columns, Lines, Whero Relevant Passages or Relevant Figures Appear				
NWY		US-2002/010901 Aa							
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		JP 07334532 A	12/22/1995	Mitsubishi Denki Semiconductor					
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Examiner Signature	Aul	ghall	Date Considered	12/08/05

*EXAMINER: Initial if reference considered, whether or flot citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gog or MPEP 901.04. ² Enter Office that issued the document, by the two-letter code (MIPO Standard ST.3). ¹ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ¹ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁰ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing its burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PATENT APPLICATION Sheet 1 of 6

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION	NO.
100111259-1	10/647,607		
APPLICANT			
S. Brandon Keller, e	t al.		
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Aug. 25, 2003			

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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1L					
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

NMI)	10	10/706.682. Enti	itled: Method And Pro	on; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number ed: Method And Program Product For Determining Nets Requiring Detailed and Self Heating Analysis In A Digital Integrated Circuit; Filed November 12,				
NWD	1R	10/708.698. Enti	itled: Method And Pro-	R.; LELM, Charles A.; U.S. Patent Application Serial Number- gram Product For Performing Self-Heating Analysis In A igle Cycle Transient Simulation; Filed November 12, 2003				
NW	15	10/706,376, Enti Electromigration	itled: Method And Pro	R.; LELM, Charles A.; U.S. Patent Application Serial Number gram For Visual Display and One-Click Repair Of gn-Rule Violations In A Digital Integrated Circuit Layout				
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PATENT APPLICATION Sheet 2 of 6

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION	NO.
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PPLICANT			

S.	Brandon	Keller,	ət	al.
FIL	ING DATE			GROUP

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

		• · · · · · · · · · · · · · · · · · · ·				
NMO	2Q	10/706,501, Entiti Digital Integrated C	ELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number 0/706,501, Entitled: Method And Program Product For Performing Electromigration Analysis In A igital Integrated Circuit By Converting A Netlist To A DC Model And Performing DC Analysis Of the DC Model; Filed November 12, 2003			
NMD	2R	KELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Number 10/706,526, Entitled: Method And Program Product For Performing A Worst Case Electromigration And Self Heating Analysis In A Digital Integrated Circuit With Worst-Case Superposition Of Partial Currents; Filed November 12, 2003				
CMN	28	2S KELLER, S. Brandon; ROGERS, Dennis R.; LELM, Charles A.; U.S. Patent Application Serial Numb 10/706,692, Entitled: Method And Program Product For Performing Electromigration Analysis In Digital Integrated Circuit Through A Single Cycle Transient Simulation; Filed November 12, 2003				
EXAMIN	IER	Ama	ham	DATE CONSIDERED		
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PATENT APPLICATION Sheet 3 of 6

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION	NO.
100111259-1	10/647,607		
APPLICANT	•		
S. Brandon Keller, e	nt al.		
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Aug. 25, 2003			

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U.S. PATENT DOCUMENTS

XAMINER INITIAL	DOCUMEN' NUMBER	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
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FOREIGN PATENT DOCUMENTS

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Mup	30	10/706,508, Er	ntitled: Method And Prog ed Circuit Layout Databas	a.; LELM, Charles A.; U.S. Patent Application Serial Number ram Product For Performing Self-Heating Analysis In A see by Substituting Resistive Models For Active Devices;
NMD	3R	under EV21065 Currents In A D	5516US; Entitled: Metho	.; ROBBERTS, George H.; U.S. Patent Application filed of And Program Product For Determining Worst Case brough Worst-Case Superposition Of Partial Currents; ry 30, 2004
NMO	38	under EV21065		.; ROBBERTS, George H.; U.S. Patent Application filed 08901-1; Entitled: Systems And Methods For Re-Using nuary 30, 2004
EXAMII	NER	Aus	hou	DATE CONSIDERED
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PATENT APPLICATION Sheet 4 of 6

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION	NO.
100111259-1	10/647,607		
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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4L					
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4N					
40					
4P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

prus	40	KELLER, S. Brandon; ROGERS, Dennis R.; ROBBERTS, George H.; U.S. Patent Application filed under EV210655581US; Docket No.: 200308899-1; Entitled: System And Method For Determining Detail Of Analysis In A Circuit Design; Filed January 30, 2004
NND	4R	KELLER, S. Brandon; ROGERS, Dennis R.; ROBBERTS, George H.; U.S. Patent Application filed under EV210655595US; Docket No.: 200308898-1; Entitled: Systems And Methods That Identify Equivalent Instantiation-Specific Configuration Information For Analysis Tools; Filed January 30, 2004
NMP	45	KELLER, S. Brandon; ROGERS, Dennis R.; ROBBERTS, George H. & STEVENS, Scott Alan; U.S. Patent Application filed under EV210655520US; Entitled: System And Method To Limit Analyzed Current Flow In A Circuit Design; Filed January 30, 2004
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PATENT APPLICATION

Sheet 5 of 6

FORM PTO-1449					100111259-1	APPLICATION NO. CONFIRM	MATION	
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NNY)	5Q	under EV2106	indon; ROGERS, D 55533US; Docket: nformation; Filed	2003	310172-1; Entitled: S	ge H.; U.S. Patent Application file ystem And Method For Procession	ed ng	
nup	5R	l under EV2106	KELLER, S. Brandon; ROGERS, Dennis R.; ROBBERTS, George H.; U.S. Patent Application filed under EV210655555US; Docket: 200310170-1; Entitled: System And Method For Balancing Run-Time And Result Accuracy In A Circuit Design Analysis Tool; Filed January 30, 2004					
NND	58	l under EV2106	KELLER, S. Brandon; ROGERS, Dennis R.; ROBBERTS, George H.; U.S. Patent Application filed under EV210655578US; Docket: 200308900-1; Entitled: System And Method For Indicating Logic State Combinations Used During Circuit Design Analysis; Filed January 30, 2004					
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PATENT APPLICATION Sheet 6 of 6

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE				ATTY. DOCKET NO. 100111259-1	10/647,607	CONFIRMATION			
				APPLICANT					
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-	60	KELLED & Bro	rdon: POGERS D	ennis R.; ROBBERTS, Geor	rae H · II S Patent An	olication filed			
hrus		l under FV2106!	55547US; Docket: Combinations For	200310171-1; Entitled: S Use During Simulation Of	System And Method Fo	or Determining			
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